

**South Unimak and Shumagin Islands June Fisheries  
Salmon Management Plan, 2005**

**by**

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**February 2005**

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**Alaska Department of Fish and Game**

**Divisions of Sport Fish and Commercial Fisheries**



## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mid-eye-to-fork	MEF
gram	g	all commonly accepted		mid-eye-to-tail-fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs., AM, PM, etc.	standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.	<b>Mathematics, statistics</b>	
meter	m			<i>all standard mathematical</i>	
milliliter	mL	at	@	<i>signs, symbols and</i>	
millimeter	mm	compass directions:		<i>abbreviations</i>	
		east	E	alternate hypothesis	H <sub>A</sub>
		north	N	base of natural logarithm	<i>e</i>
		south	S	catch per unit effort	CPUE
		west	W	coefficient of variation	CV
		copyright	©	common test statistics	(F, t, $\chi^2$ , etc.)
		corporate suffixes:		confidence interval	CI
		Company	Co.	correlation coefficient	
		Corporation	Corp.	(multiple)	R
		Incorporated	Inc.	correlation coefficient	
		Limited	Ltd.	(simple)	r
		District of Columbia	D.C.	covariance	cov
		et alii (and others)	et al.	degree (angular)	°
		et cetera (and so forth)	etc.	degrees of freedom	df
		exempli gratia		expected value	<i>E</i>
		(for example)	e.g.	greater than	>
		Federal Information		greater than or equal to	≥
		Code	FIC	harvest per unit effort	HPUE
		id est (that is)	i.e.	less than	<
		latitude or longitude	lat. or long.	less than or equal to	≤
		monetary symbols		logarithm (natural)	ln
		(U.S.)	\$, ¢	logarithm (base 10)	log
		months (tables and		logarithm (specify base)	log <sub>2</sub> , etc.
		figures): first three		minute (angular)	'
		letters	Jan,...,Dec	not significant	NS
		registered trademark	®	null hypothesis	H <sub>0</sub>
		trademark	™	percent	%
		United States		probability	P
		(adjective)	U.S.	probability of a type I error	
		United States of		(rejection of the null	
		America (noun)	USA	hypothesis when true)	$\alpha$
		U.S.C.	United States	probability of a type II error	
			Code	(acceptance of the null	
		U.S. state	use two-letter	hypothesis when false)	$\beta$
			abbreviations	second (angular)	"
			(e.g., AK, WA)	standard deviation	SD
				standard error	SE
				variance	
				population	Var
				sample	var
<b>Weights and measures (English)</b>					
cubic feet per second	ft <sup>3</sup> /s				
foot	ft				
gallon	gal				
inch	in				
mile	mi				
nautical mile	nmi				
ounce	oz				
pound	lb				
quart	qt				
yard	yd				
<b>Time and temperature</b>					
day	d				
degrees Celsius	°C				
degrees Fahrenheit	°F				
degrees kelvin	K				
hour	h				
minute	min				
second	s				
<b>Physics and chemistry</b>					
all atomic symbols					
alternating current	AC				
ampere	A				
calorie	cal				
direct current	DC				
hertz	Hz				
horsepower	hp				
hydrogen ion activity	pH				
(negative log of)					
parts per million	ppm				
parts per thousand	ppt,				
	‰				
volts	V				
watts	W				

***FISHERY MANAGEMENT REPORT NO. 05-08***

**SOUTH UNIMMAK AND SHUMAGIN ISLANDS JUNE FISHERIES  
SALMON MANAGEMENT PLAN, 2005**

by

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## ABSTRACT

The South Unimak (False Pass) and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area and target sockeye salmon *Oncorhynchus nerka*. The South Unimak fishery includes the Unimak and Southwestern Districts plus the Bechevin Bay, West Pavlof Bay, and East Pavlof Bay Sections. The Shumagin Islands fishery includes only the Shumagin Islands Section of the Southeastern District. The season will consist of four 88-hour fishing periods interspersed with 32-hour closures followed by a final 64-hour fishing period beginning 6:00 AM June 7 and ending 10:00 PM June 29. This document summarizes the strategy for management of the Alaska Peninsula June Fisheries and outlines the requirements of industry to participate in these fisheries in 2005.

Key words: Alaska Peninsula, False Pass, Shumagin Islands, South Unimak, June Fisheries, salmon, management plan

## INTRODUCTION

This document provides commercial fishermen and processors with the Alaska Department of Fish & Game (ADF&G) harvest strategy for the South Unimak and Shumagin Islands June salmon fisheries. It also outlines the requirements of the industry to participate in these fisheries as well as how to relay information to the department.

The South Unimak and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area and target sockeye salmon *Oncorhynchus nerka*. Historically, sockeye salmon abundance peaks in the fishery between June 13 and June 22, and usually declines rapidly after June 22. The South Unimak fishery includes the Unimak and Southwestern Districts plus the Bechevin Bay, West Pavlof Bay, and East Pavlof Bay Sections (Figure 1). The Shumagin Islands fishery includes the Shumagin Islands Section of the Southeastern District. During the most recent 10 years, the South Unimak sockeye salmon harvest has averaged 752,158 fish (Table 1) while the Shumagin Islands sockeye salmon harvest averaged 369,920 fish (Table 2). The combined South Unimak and Shumagin Islands average sockeye salmon harvest during 1995-2004 was 1,122,078 fish (Table 3).

## ANNOUNCEMENTS

Inseason announcements will be broadcast over AM radio station KSDP (frequency 830 AM) in Sand Point and translated over K201DA (88.1 MHz FM) in King Cove, VHF channels 6 and 73, and on Single Side Band (SSB) frequencies 3.230, 3.261, and 4.125 MHz. Recorded information may also be obtained from ADF&G in Sand Point at 383-2334 (383-ADFG).

## HARVEST REPORTING

All buyers must report their salmon purchases daily by species (in both numbers of fish and pounds), and number of deliveries by gear type to either the ADF&G office in Cold Bay or Sand Point (5 AAC 39.130 (a)(3)). Processors must provide the department with catch reports before 9:30 AM on the morning after purchases take place. However, earlier reporting is appreciated and helpful in prosecuting an orderly fishery. Contact can be made over VHF 6 and SSB 3.230 or 3.261 MHz. Buyers may also phone or fax their information to ADF&G offices in Cold Bay or Sand Point.

Cold Bay  
Sand Point

Telephone: 532-2419  
Telephone: 383-2066

Fax: 532-2470  
Fax: 383-2606

Properly filled out fish tickets are essential to the management of these fisheries. An informational packet containing detailed instructions on filling out and submitting fish tickets is available to all fish transporters, tender operators and processor/buyers at ADF&G offices in Cold Bay and Sand Point. Fish tickets must be delivered to the ADF&G offices in Cold Bay or Sand Point (addresses listed below) within seven days of the purchase date.

Alaska Department of Fish & Game  
P.O. Box 50  
Cold Bay, AK 99571

Alaska Department of Fish & Game  
P.O. Box 129  
Sand Point, AK 99661

## **2005 MANAGEMENT PLAN**

The South Unimak and Shumagin Islands June Fishery Management Plan (5 AAC 09.365) is in effect from June 7 through June 29.

The South Unimak June fishery includes the following locations (Figure 1):

- A. Unimak District as described in 5 AAC 09.200 (c).
- B. Bechevin Bay Section of the Northwestern District as described in 5 AAC 09.200 (b) (2).
- C. Southwestern District as described in 5 AAC 09.200 (d).
- D. West Pavlof and East Pavlof Bay Sections of the South Central District as described in 5 AAC 09.200 (e) (1) (2).

The Shumagin Islands fishery includes the Shumagin Islands Section of the Southeastern District (Figure 1) as described in 5 AAC 09.200 (f) (3).

Fishing periods for the South Unimak and Shumagin Islands fisheries will be as follows (Figure 2):

<u>Dates and Times</u>	<u>Duration</u>
6:00 AM Tuesday June 7 until 10:00 PM Friday June 10	88 hours
6:00 AM Sunday June 12 until 10:00 PM Wednesday June 15	88 hours
6:00 AM Friday June 17 until 10:00 PM Monday June 20	88 hours
6:00 AM Wednesday June 22 until 10:00 PM Saturday June 25	88 hours
6:00 AM Monday June 27 until 10:00 PM Wednesday June 29	64 hours

Fishermen should be aware that waters closed to commercial salmon fishing, as specified under 5 AAC 09.350, are in effect during June. In addition, waters near Sanak Island will be closed to commercial salmon fishing by emergency order through June 30 to avoid chum salmon. Although there is no stock information about the chum salmon in this area, a closure of this section will minimize the chum salmon harvest. Closed waters are south of the latitude of Hague Rock (54° 33.06' N. lat.) and east of the longitude of Cape Pankof Light (163° 03.60' W long., Figure 1).



Fishermen are reminded that latitude and longitude coordinates in the Alaska Peninsula Management Area will be determined and enforced using the Global Positioning System (GPS).

Gillnet fishermen are reminded that the South Unimak and Shumagin Islands June fishery is the only fisheries in the South Peninsula that have no minimum gillnet mesh size.

In the past, large numbers of immature salmon have occasionally been harvested by seine gear during June. ADF&G will consider closing areas to fishing with seine gear if this occurs.

## **TABLES AND FIGURES**

**Table 1.-**South Unimak June Fishery commercial salmon harvest, in numbers of fish, by species, 1995-2004.

Year	Number of Fish <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1995	7,850	1,451,490	5,102	119,094	342,307	1,925,843
1996	1,228	572,495	11,730	146,799	129,889	862,141
1997	3,041	1,179,179	501	332,262	196,016	1,710,999
1998	1,259	974,628	312	125,906	195,454	1,297,559
1999	2,258	1,106,208	1	20,302	186,886	1,315,655
2000	2,064	892,016	303	210,521	168,888	1,273,792
2001	134	121,547	2	31,812	36,099	189,594
2002	433	356,157	3	33,789	201,211	591,593
2003	373	335,903	14	90,161	121,169	547,620
2004	670	531,955	159	78,808	130,626	742,218
1995-2004						
Average	1,931	752,158	1,813	118,945	170,855	1,045,701

<sup>a</sup> Numbers of salmon do not include test fish catches.

**Table 2.-**Shumagin Islands June Fishery commercial salmon harvest, in numbers of fish, by species, 1995-2004.

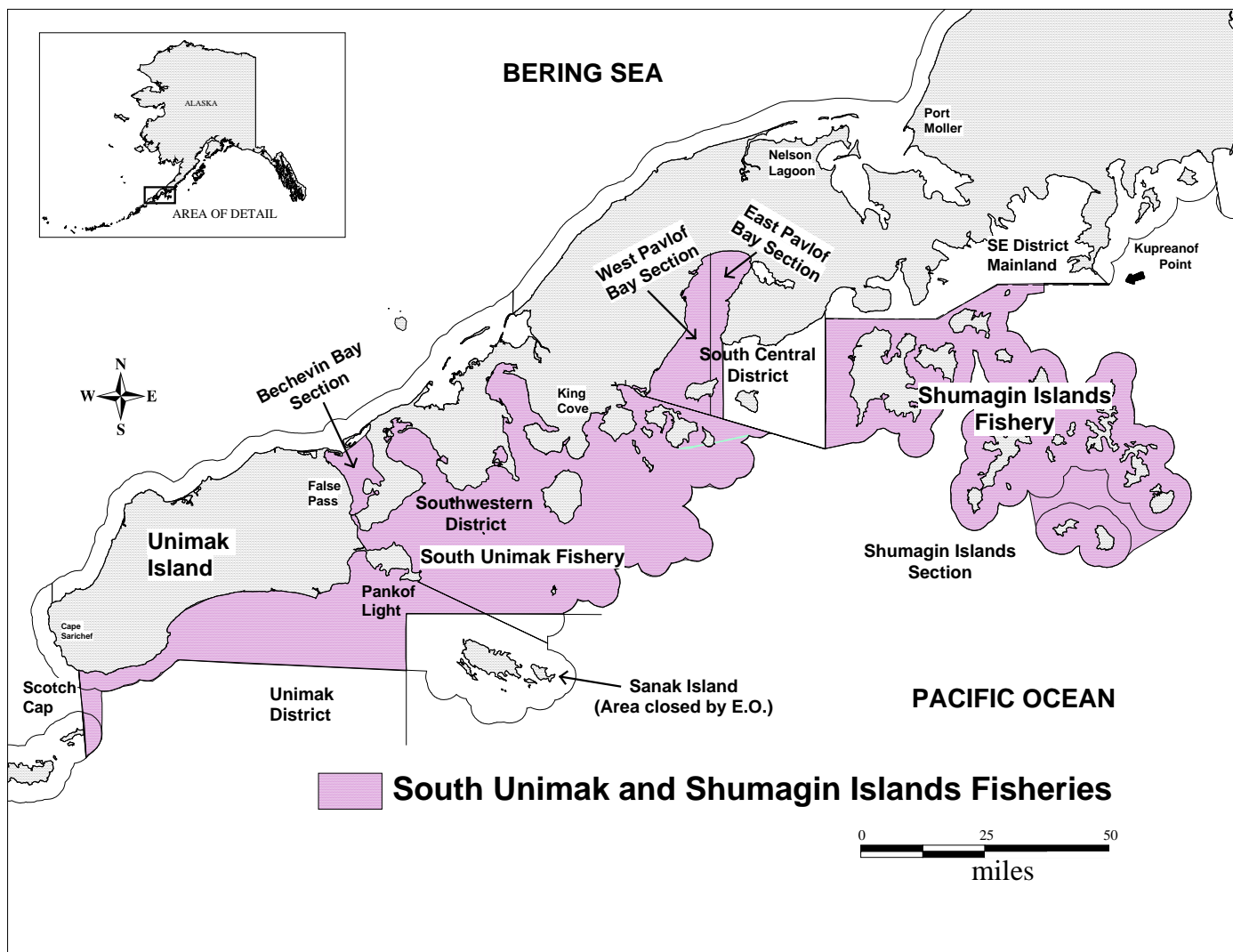
Year	Number of Fish <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1995	6,897	653,831	940	59,541	195,126	916,335
1996	1,617	456,475	1,489	230,885	229,931	920,397
1997	2,770	449,002	59	273,675	126,309	851,815
1998	1,437	314,097	164	348,434	50,165	714,297
1999	793	269,191	1	10,237	58,420	338,642
2000	785	359,212	1	149,508	70,469	579,975
2001	211	29,085	0	7,439	12,251	48,986
2002	2,010	234,949	1	42,462	177,606	457,028
2003	950	117,244	139	127,739	161,269	407,341
2004	3,735	816,118	462	281,108	351,683	1,453,106
1995-2004						
Average	2,121	369,920	326	153,103	143,323	668,792

<sup>a</sup> Numbers of salmon do not include test fish catches.

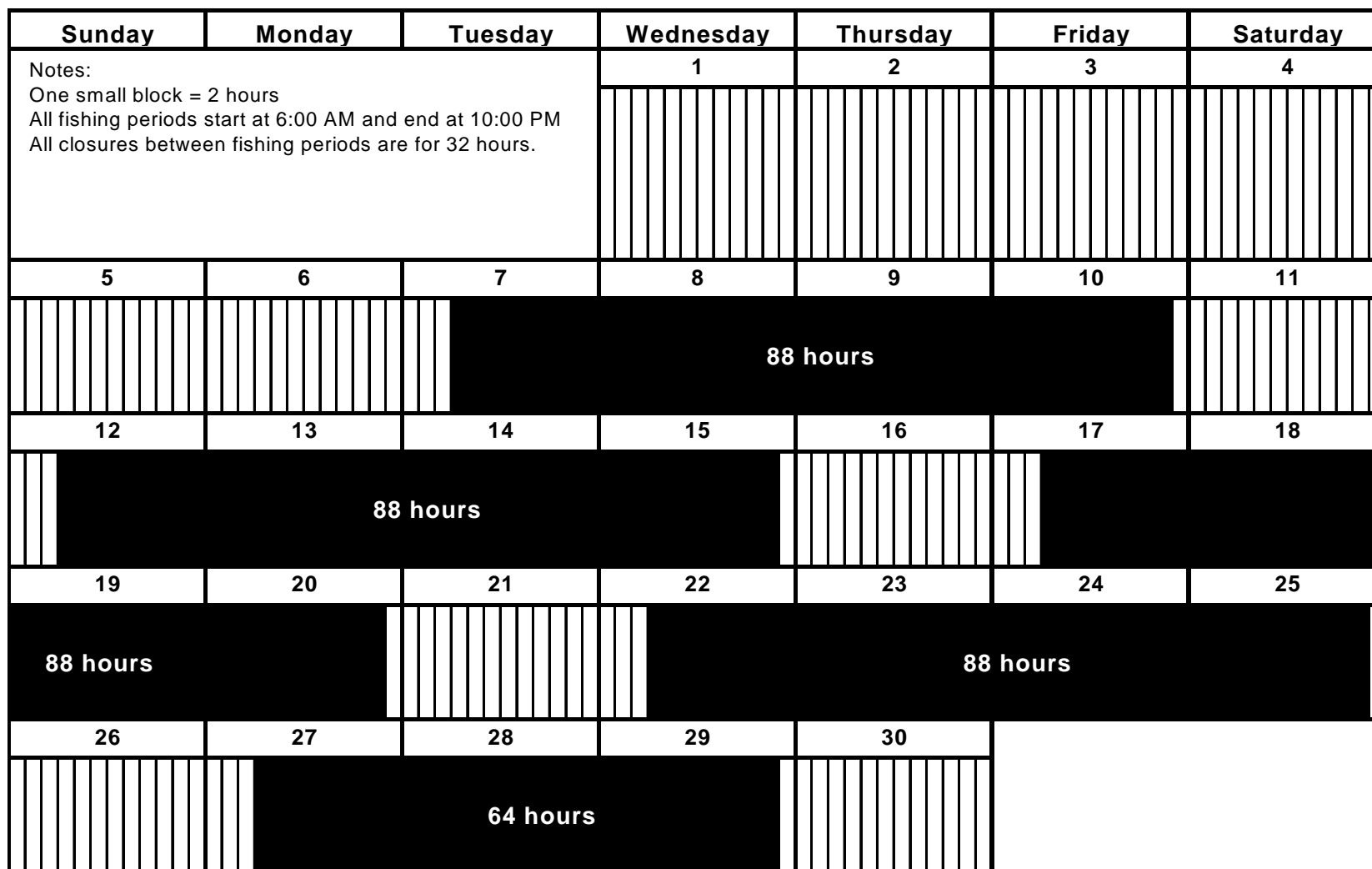
**Table 3.-**Combined South Unimak-Shumagin Islands June Fisheries commercial salmon harvest, in numbers of fish, by species, 1995-2004.

Year	Number of Fish <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1995	14,747	2,105,321	6,042	178,635	537,433	2,842,178
1996	2,845	1,028,970	13,219	377,684	359,820	1,782,538
1997	5,811	1,628,181	560	605,937	322,325	2,562,814
1998	2,696	1,288,725	476	474,340	245,619	2,011,856
1999	3,051	1,375,399	2	30,539	245,306	1,654,297
2000	2,849	1,251,228	304	360,029	239,357	1,853,767
2001	345	150,632	2	39,251	48,350	238,580
2002	2,443	591,106	4	76,251	378,817	1,048,621
2003	1,323	453,147	153	217,900	282,438	954,961
2004	4,423	1,348,073	621	359,916	482,309	2,195,342
1995-2004						
Average	4,053	1,122,078	2,138	272,048	314,177	1,714,495

<sup>a</sup> Numbers of salmon do not include test fish catches.



**Figure 1.-Map of South Unimak and Shumagin Islands June fisheries.**



**Figure 2.**-Fishing time in South Unimak and Shumagin Islands June fisheries, 2005.